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Mechanical Engineers

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JANUARY 1972

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Where You Will Find the ASME Transactions

In United States and Territories

ALABAMA

Auburn.....Auburn University
Main Library
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Engineering Library

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The Arizona State Universities Library
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Tucson.....University of Arizona
University of Arizona Library
Mech. Engrg. Dept. Library

ARKANSAS

Fayetteville.....University of Arkansas
Engineering Library

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Serials Dept. General Library
Davis.....University of California
Acquisitions Department Library
Engineering Library
Fresno.....Fresno State College
Periodicals Department
Student Library—School of Engineering
Long Beach.....California State College at Long Beach
College Library
College Library—Science Reference Room
Los Angeles.....California State College
John F. Kennedy Memorial Library
University of California
Engineering and Mathematical Sciences
Library Room 8270—Boelter Hall
ASME Student Reference Room Library
Room 3066—Engineering Bldg.
University of Southern California
Engineering Library
Monterey.....U. S. Naval Postgraduate School
Library
Northbridge.....San Fernando Valley State College
Pasadena.....California Institute of Technology
Engineering Library
Pomona.....California State Polytechnic College
Sacramento.....Sacramento State College Library
San Luis.....California State Polytechnic College
Library
Santa Barbara.....University of California Elect. Engrg. Bldg.
Santa Clara.....University of Santa Clara
Varsi Library
Varsi Library—M. E. Dept.
Public Library
San Diego.....San Diego State College
Library—Serials Department
San Jose.....San Jose State College
Main Library
Science & Technology Library
Stanford.....Stanford
Engineering Library
Durand Room—Mechanical Engrg. Dept.

COLORADO

Boulder.....University of Colorado
Libraries—Serials Department
Denver.....University of Denver
Mary Reed Library
Fort Collins.....Colorado State University
Morgan Library
Golden.....Colorado School of Mines
Arthur Lake Library

CONNECTICUT

Bridgeport.....University of Bridgeport
Library—Serials Department
East Windsor Hill...Rensselaer Polytechnic Institute
Hartford Graduate Division
Storrs.....University of Connecticut
Wilbur Cross Library
Engineering Library
West Hartford.....University of Hartford
Library
West Haven.....University of New Haven

DELAWARE

Newark.....University of Delaware
Memorial Library
Morris Library

DISTRICT OF COLUMBIA

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Engineering Library
George Washington University
Library
Engineering Branch Library
Howard University
Engineering and Architectual Library
Library of Congress
National Bureau of Standards Library
U. S. Patent Office
Scientific Library

FLORIDA

Coral Gables.....University of Miami
Main Library—Periodicals Dept.
Gainesville.....University of Florida
Engineering Sciences Library

GEORGIA

Atlanta.....Georgia Institute of Technology
Library

HAWAII

Honolulu.....University of Hawaii
Graduate Research Library

IDAHO

Moscow.....University of Idaho
Library—Acquisitions Section
Engineering Reading Room

ILLINOIS

Chicago.....Illinois Institute of Technology
Library—Technology Center
Mech. Engrg. Dept. Library
University of Illinois at Chicago Circle
Evanston.....Northwestern University
Technological Institute Library
Peoria.....Bradley University
Library—Periodical Department
Springfield.....Illinois State Library
Urbana.....University of Illinois
Library—Serials Dept.

INDIANA

Evansville.....University of Evansville
Clifford Memorial Library
Engineering Library
Lafayette.....Purdue University
Libraries—Periodicals
Notre Dame.....University of Notre Dame
Main Library—Serials Division
Engineering Library
Terre Haute.....Rose Polytechnic Institute
Library
Valparaiso.....Valparaiso University
University Library

IOWA

Ames.....Iowa State University
Science and Technology Library
Iowa City.....State University of Iowa
University Library—Serials Acquisition Dept.

KANSAS

Lawrence — University of Kansas
Libraries—Serials Department

Manhattan — Kansas State University
University Library
Mech. Engrg. Dept. Library

Wichita — Wichita State University
Alba Library

KENTUCKY

Lexington — University of Kentucky
Engineering Library

Louisville — University of Louisville
Speed Scientific School Library

LOUISIANA

Baton Rouge — Louisiana State University
Library
Southern University
Engineering Library

Lafayette — University of Southwestern Louisiana
Dupre Library

New Orleans — Tulane University
Howard Tilton Memorial Library

Ruston — Louisiana Tech University Library

MAINE

Orono — University of Maine
Library

MARYLAND

Annapolis — U. S. Naval Academy Library

College Park — University of Maryland
Engineering and Physical Sciences Library

MASSACHUSETTS

Amherst — University of Massachusetts
Engrg. School Library

Boston — Northeastern University
Engineering Library
Engineering Library—Mech. Engrg. Branch

Cambridge — Massachusetts Institute of Technology
Library—Serials and Journals

Lowell — Lowell Technological Institute
Alumni Memorial Library

Medford — Tufts University
University Library
Mech. Engrg. Library

North Dartmouth — Southeastern Massachusetts University
Main Library

Worcester — Worcester Polytechnic Institute
Gordon Library
Mech. Engrg. Dept. Library

MICHIGAN

Ann Arbor — University of Michigan
Engineering Library

Detroit — University of Detroit
Library
Wayne State University
Kresge-Hooker Scientific Library

East Lansing — Michigan State University
Library—Serials Dept.
Engineering Library

Houghton — Michigan Technological University
Library

Sault Ste Marie — Lake Superior State College

MINNESOTA

Minneapolis — University of Minnesota
Engineering Library

MISSISSIPPI

State College — Mississippi State University
University Library

University — University of Mississippi
University Library
University Library—Mechanical Section

MISSOURI

Columbia — University of Missouri
Engineering Library

Rolla — University of Missouri at Rolla
Library

St. Louis — Washington University
Library—Acquisitions Dept.

MONTANA

Bozeman — Montana State University
Library
Mech. Engrg. Dept. Library

NEBRASKA

Lincoln — University of Nebraska
Libraries—Acquisitions Dept.

NEVADA

Reno — University of Nevada
Engineering Library—Scrugham Engineering
Engineering Library Branch—New Engrg. Bldg.

NEW HAMPSHIRE

Durham — University of New Hampshire
Main Library

Hanover — Dartmouth College
Library—Thayer School of Engineering

NEW JERSEY

Hoboken — Stevens Institute of Technology
Library

Newark — Newark College of Engineering
Library

New Brunswick — Rutgers University
Library

Princeton — Princeton University
Firestone Library
Engineering Library

Teaneck — Fairleigh Dickinson University
Library

NEW MEXICO

Albuquerque — University of New Mexico
Library—Acquisitions Department
Mech. Engrg Dept Library

University Park — New Mexico State University
Library

NEW YORK

Albany — New York State Library

Bronx — Manhattan College
Engineering Library

Brooklyn — Polytechnic Institute of Brooklyn
Library
Pratt Institute
Library
Brooklyn Public Library

Buffalo — State University of New York at Buffalo
Science and Engineering Library

Ithaca — Cornell University
Engineering Library—Carpenter Hall

Jamaica, L. I. — Queens Borough Public Library

New York — College of the City of New York
Technology Library
Mechanical Engrg. Dept. Library
Columbia University
Egleston Library
Cooper Union
Main Library
Bateman Library—Mech. Engrg. Dept.
Engineering Societies Library
New York University
Engineering Library
Mech. Engrg. Dept. Library
Public Library—Science and Technology Div.

Potsdam — Clarkson College of Technology
Library

Rochester — University of Rochester
Rush Rhees Library
College of Engineering Library
Rochester Institute of Technology
Library

Schenectady — Union College
Library

Syracuse — Syracuse University
Engineering Library—White Hall

Troy — Rensselaer Polytechnic Institute
Library Serials Dept.

NORTH CAROLINA

Charlotte — Public Library of Charlotte & Mecklenberg
County

Durham — Duke University
Library—Periodicals 'E'
Engineering Library—Periodicals 'E'

Greensboro — North Carolina Agricultural & Tech. State Univ.
Library

Raleigh.....North Carolina State University at Raleigh
D. H. Hill Library
Mech. Engrg. Dept. Library

NORTH DAKOTA

Fargo.....North Dakota State University
Library
Grand Forks.....University of North Dakota
Main Library
Student Section Library—Mech. Engrg. Dept.

OHIO

Ada.....Ohio Northern Library
Heterick Library
Mechanical Engineering Reading Room
Akron.....University of Akron
Library
Science and Technology Library
Athens.....Ohio University
University Library
Mechanical Engrg. Library
Cincinnati.....University of Cincinnati
Library
Engineering Library
Cleveland.....Case Western Reserve University
The Sears Library
Cleveland and State University
Library
Columbus.....Ohio State University
University Libraries—Acquisition Dept.
Dayton.....University of Dayton
Albert Emanuel Library
Engineers Club of Dayton
Toledo.....University of Toledo
Library
Youngstown.....Youngstown State University
Library

OKLAHOMA

Norman.....University of Oklahoma
Engineering Library
Stillwater.....Oklahoma State University
Library
Tulsa.....University of Tulsa
Sidney Born Technical Library

OREGON

Corvallis.....Oregon State University
Library

PENNSYLVANIA

Bethlehem.....Lehigh University
University Library
Chester.....PMC Colleges
Library
School of Engineering Library
Easton.....Lafayette College
Skillman Memorial Library
Erie.....Gannon College
Library
Lewisburg.....Bucknell University
University Library
Mechanical Engineering Dept. Library
Philadelphia.....Drexel University Library
University of Pennsylvania
Library, School of Engineering—Towne Bldg.
The Franklin Institute
Pittsburgh.....Carnegie-Mellon University
Library
Carnegie Library of Pittsburgh
University of Pittsburgh
George M. Bevier Engrg. Library
Swarthmore.....Swarthmore College
College Library
University Park....Pennsylvania State University
Engineering Library
Villanova.....Villanova University
Library

PUERTO RICO

Mayagues.....University of Puerto Rico
College of Agricultural and
Mechanics Arts Library
San Juan.....Colegio De Ingenieros, Arquitectos Y
Agrimensores De Puerto Rico

RHODE ISLAND

Kingston.....University of Rhode Island
Library
Providence.....Brown University
Reference Library, Barus and Holley Bldg.
Div. of Engineering

SOUTH CAROLINA

Clemson.....Clemson University
College Library
Mech. Engrg. Library
Columbia.....University of South Carolina
McKissick Library—Science Room
Mechanical Engrg. Dept. Library

SOUTH DAKOTA

Brookings.....South Dakota State University
Library
Rapid City.....South Dakota School of Mines and Technology
Library
Mech. Engrg. Dept. Library

TENNESSEE

Cookeville.....Tennessee Technology University
Mechanical Engrg. Dept. Library
Knoxville.....University of Tennessee
Engineering Library
Memphis.....Christian Brothers College
Library—Periodicals Dept.
Nashville.....Vanderbilt University
Joint University Libraries
Engr. and Science Reading Rm.

TEXAS

Arlington.....University of Texas at Arlington
Library
Aero and Mech. Engrg. Dept. Library
Austin.....University of Texas at Austin
Engineering Library
Beaumont.....Lamar University
Library
Engineering Library
College Station.....Texas A & M University
Library—Serials Record
Dallas.....Southern Methodist University
Science Library
Engineering School Library
El Paso.....University of Texas at El Paso
Main Library
Houston.....University of Houston
Libraries—Serials
Mech. Engrg. Dept. Library
William Marsh Rice University
Fondren Library
Lubbock.....Texas Tech University
Main Library
San Antonio.....Texas Natural Resources Foundation Library

UTAH

Logan.....Utah State University
Library
Provo.....Brigham Young University
Central Library
Mechanical Engineering Dept. Library
Salt Lake City.....University of Utah
Engineering Library—Serials Order Dept.
Mechanical Engineering Dept. Library

VERMONT

Burlington.....University of Vermont
Billings Library
Northfield.....Norwich University
Mechanical Engineering Dept. Library

VIRGINIA

Blacksburg.....Virginia Polytechnic Institute & State University
Main Library
Charlottesville.....University of Virginia
Engineering Library, Thornton Hall
Norfolk.....Old Dominion College
Library

WASHINGTON

Pullman.....Washington State University
Science Library—Holland Library
Seattle.....Seattle University
Library
University of Washington
Engineering Library—Guggenheim Hall
Mechanical Engineering Library

WEST VIRGINIA

Montgomery.....West Virginia Institute of Tech.
Library—Conley Hall
Mechanical Engrg. Library
Morgantown.....West Virginia University
Engineering Library—Evansdale Campus

WISCONSIN
Madison.....University of Wisconsin
College of Engrg. Library
Milwaukee.....Marquette University
Engineering Library

WYOMING
Laramie.....University of Wyoming
Coe Library

In Other Countries

ARGENTINA
Buenos Aires.....Sociedad Científica

AUSTRALIA
Adelaide.....State Library of South Australia
Melbourne.....State Library of Victoria
Nedlands.....University of Western Australia
Sydney.....Public Library of New South Wales

BELGIUM
Louvain.....University of Louvain Library

BRAZIL
São Paulo.....Centro Technico de Aeronautica

CANADA*
Alberta
Edmonton.....University of Alberta
Cameron Library
British Columbia
Vancouver.....University of British Columbia
Library—Applied Science Reading Room
Mechanical Engineering Dept. Library
Ontario
Hamilton.....McMaster University
Physical Science Library
Kingston.....Queen's University
Mechanical Engineering Dept. Library
Toronto.....University of Toronto
Library
Mech. Engrg. Library
Waterloo.....University of Waterloo
The Library—Serials Dept.
Windsor.....University of Windsor
The Library
Mechanical Engrg. Dept. Library
Quebec
Montreal.....McGill University Library

CHILE
Santiago.....Universidad de Chile
Biblioteca Central, Escuela de Ingeniería

*Only Country involving ASME Student Section depositories.

ENGLAND
Birmingham.....Birmingham Reference Library
Bristol.....University of Bristol Library
Cambridge.....University of Cambridge
Liverpool.....Liverpool Public Libraries
London.....Royal Aeronautical Society
Manchester.....Manchester College of Science and Technology
Newcastle Upon
Tyne.....North East Coast Institute of Engineers and
Shipbuilders

FRANCE
Paris.....The American Library

GERMANY
Berlin-
Charlottenburg...Technische Universität Berlin
Karlsruhe.....Bibliothek der Technischen
München.....Bibliothek des Deutsches Museums

HOLLAND
Delft.....Bibliotheek Technische Hogeschool
Rotterdam.....Nationaal-Technische Instituut voor
Scheepvaart en Luchtvaart

NORTHERN IRELAND
Belfast.....Queen's University
David Keir Branch Library

MEXICO
Mexico City.....Ciudad Universitaría
Facultad de Ingeniería
1st Plolitecnico Nacional Unidad Profesional
Zacatenco

NEW ZEALAND
Christchurch.....University of Canterbury

SCOTLAND
Glasgow.....Mitchell Library

SOUTH AFRICA
Cape Town.....University of Cape Town Library
Johannesburg.....Johannesburg City Library
Seymour Memorial Branch

SWEDEN
Gothenburg.....Chalmers University of Technology Library
Stockholm.....Kunyl Tekniska Högskolans Bibliotek

TURKEY
Istanbul.....Bugazici Univesitesi Library

WALES
Cardiff.....Cardiff Public Libraries

Indexes to ASME Papers and Publications

Volume 93, 1971

This and the following pages will serve as a guide to the current publications of the ASME.

Regular Society Publications, 1971

MECHANICAL ENGINEERING, monthly (see index on page SR-21)
ASME Transactions, quarterlies (see combined index on page SR-109)
Series A, *Journal of Engineering for Power*
Series B, *Journal of Engineering for Industry*
Series C, *Journal of Heat Transfer*
Series D, *Journal of Basic Engineering*
Series E, *Journal of Applied Mechanics*
Series F, *Journal of Lubrication Technology*
Series G, *Journal of Dynamic Systems, Measurements, and Control*
Applied Mechanics Reviews, monthly
Applied Mechanics Reviews, Annual Index, 1971

Publications Issued In 1971

BOOKS AND REPORTS

Advanced Centrifugal Compressors
Annals of Reliability and Maintainability
Applications of Holography in Mechanics
Applied Mechanics Aspects of Nuclear Effects in Materials
Cavitation Forum—1971
2¼ Chrome 1 Molybdenum Steel in Pressure Vessels and Piping
Code on Definitions and Values
Computer Software in Structural Analysis
Design for Elevated Temperature Environment
Diesel and Gas Engine Power Proceedings—1970
Engineering Computer Software: Verification, Qualifaction, Certification
Environmental and Geophysical Heat Transfer—Volume 4
Fabricated Nuclear Piping
Freight Car Impact—Volume 1
Fluid Dynamic Measurements
Fluid Meters, Their Theory and Application
Guide to Code Requirements for a Controlled Manufacturing System and the ASME Survey for Compliance
Heat Transfer in Low Reynolds Number Flow—Volume 5
Life Adjustment Factors for Ball and Roller Bearings—An Engineering Design Guide
Limited Field Installation of Nuclear Power Plant Components and Appurtenances
List of Companies Holding Certificates of Authorization for Use of Code Symbol Stamps
Loss Prevention of Rotating Machinery
Manufacturers' Data Report for Nuclear Part and Appurtenances
Manufacturers' Data Report for Nuclear Vessels
Manufacturers' Data Report for Nuclear Vessels (Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only)
1970 National Incinerator Conference—Discussions Only
North American Fuel Technology
Nuclear Pumps or Valves
Owner's Data Report for Nuclear Power Plant Components
Rail Transportation Proceedings—1971
Recent Developments in Thermophysical Properties Research—Volume 3
Report on Diesel and Gas Engine Power Costs—1971
Role of Nucleation in Boiling and Cavitation—Discussions Only
Safety and Safety Relief Valves
Seismic Analysis of Pressure Vessel and Piping Components
Spent Nuclear Fuel Heat Transfer—Volume 2
Survey of Nucleonic Heat Transfer—Volume 1
Synthesis of Vibrating Systems

ASME STANDARDS

ASTM-ASME Recommended Practices for the Flushing and Cleaning of Lubricating Systems of Various Turbine Driven Pumps for Marine Service
ASTM-ASME Recommended Practices for Flushing and Cleaning of Gas Turbine Generator Lubricating Oil Systems
ASTM-ASME Recommended Practices for the Flushing and Cleaning of Oil Systems for Lubrication and Control of Hydroelectric Equipment
ASTM-ASME Recommended Practices for the Purification of Oil Systems for Lubrication and Control of Hydroelectric Equipment

AMERICAN NATIONAL STANDARDS

Base Mounted Drum Hoists
Cast Bronze Threaded Fittings
Cast Iron Threaded Fittings, 125 and 250 Lb
Cast Iron Threaded Drainage Fittings
Die Buttons—Basic Taper Relief, Press Fit
Die Buttons—Basic Straight Relief, Press Fit
Die Buttons—Basic Ball Lock
Die Buttons—Variable, Press Fit
Electrical and Electronics Diagrams (With 1970 Supplement)
Elevators, Dumbwaiters, Escalators, and Moving Walks
Factory-Made Wrought Steel Buttwelding Fittings
Ferrous Pipe Plugs, Bushings and Locknuts with Pipe Threads
Finished and Rough Brass Plumbing Fixture Fittings
Floating Cranes and Floating Derricks
Graphic Symbols for Electrical and Electronics Diagrams
Inservice Inspection of Nuclear Reactor Coolant Systems, Section XI of the 1971 ASME Boiler and Pressure Vessel Code
Inverted Tooth (Silent) Chains and Sprocket Teeth
Leaf Chain
Liquid Petroleum Transportation Piping Systems
Malleable-Iron Threaded Fittings, 150 and 300 Lb
Mounting Dimensions of Lubricating and Coolant Pumps for Machine Tools
Nonferrous Pipe Flanges, 150, 300, 400, 600, 900, 1500 and 2500 Lb
Nuclear Power Piping—Addenda Only
Power Piping—Addendum Only
Roof Drains
Round Head Bolts
Steel Bushed Rollerless Chains, Attachments and Sprocket Teeth
Steel Pipe Flanges and Flanged Fittings (150, 300, 400, 600, 900, 1500 and 2500 Lb) Including Reference to Valves—Addenda Only
Taps—Cut and Ground Threads

PERFORMANCE TEST CODES

Code on Definitions and Values

How to Find Papers Presented at 1971 ASME Meeting

The technical programs of the meetings of the Society and of its Professional Divisions have been published in MECHANICAL ENGINEERING and may be located by consulting the index on page SR-21. Many of these papers will be published in MECHANICAL ENGINEERING or the *Transactions* and may be located by reference to the indexes of these publications.

Currently Available ASME Publications

ASME members may purchase most of the publications listed below at a 20 percent discount. Handling and mailing charges are added to price when payment does not accompany order.

American National Standards

ELEVATOR CODES & GENERAL STANDARDS

A13.1—1956 Scheme for the Identification of Piping Systems. $2.00
A17.1—1971 Elevators, Dumbwaiters, Escalators and Moving Walks. $11.75
A17.2—1960 Practice for the Inspection of Elevators—Inspectors' Manual (With 1965 and 1967 Addenda). $5.25. (1965 Addenda only. $1.00; 1967 Addenda only. $1.50)
A40.4—1942 and .6—1943 Air Gaps and Backflow Preventers in Plumbing Systems. $2.50
A40.5—1943 Threaded Cast Iron Pipe for Drainage, Vent and Waste Services. $2.00
A40.8—1955 National Plumbing Code. $6.00
A90.1—1969 Manlifts. $3.00
A112.11.1—1968 Self-Contained, Mechanically Refrigerated Drinking-Water Coolers. $2.00
A112.18.1—1971 Finished and Rough Brass Plumbing Fixture Fittings. $2.50
A112.21.1—1968 Floor Drains. $2.00
A112.21.2—1971 Roof Drains. $2.50
A112.26.1—1969 Water Hammer Arresters. $2.50
A113.1—1964(R1971) Mechanized Parking Garage Equipment. $4.50

SCREW THREADS, PIPE THREADS & CYLINDRICAL PARTS

B1.1—1960 Unified Screw Threads. $6.00
B.1.1a—1968 Unified Screw Threads—Metric Translation. $3.50
B1.2—1966 Gages and Gaging for Unified Screw Threads. $6.00
B1.7—1965 Nomenclature, Definitions and Letter Symbols for Screw Threads. $2.75

B1.10—1958 Unified Miniature Screw Threads. $2.00
B1.11—1958 Microscope Objective Thread. $2.00
B1.12—1963 Class 5 Interference—Fit Thread. $2.00
Metric Screws Threads. (Not ANSI Standard). $3.50
B2.1—1968 Pipe Threads (Except Dryseal). $4.25
B2.4—1966 Hose Coupling Screw Threads. $2.75
B4.1—1967 Preferred Limits and Fits for Cylindrical Parts. $3.00

MACHINE TOOLS, COMPONENTS, ELEMENTS, PERFORMANCE & EQUIPMENT

B5.1—1949 T-Slots—Their Bolts, Nuts, Tongues and Cutters. $2.00
B5.5—1959 Rotating Air Cylinders and Adapters. $2.00
B5.8—1954 (R1959) Chucks and Chuck Jaws. $2.50
B5.9—1967 Spindle Noses for Tool Room Lathes, Engine Lathes, Turret Lathes and Automatic Lathes. $3.50
B5.10—1963 Machine Tapers. $3.50
B5.11—1964 Spindle Noses and Adjustable Adapters for Multiple Spindle Drilling Heads. $2.00
B5.16—1952 Accuracy of Engine and Tool Room Lathes. $2.00
B5.18—1960 Spindle Noses and Arbors for Milling Machines. $2.00
B5.20—1958 Machine Pins. $2.00
B5.25—1968 Die Sets. $3.00
B5.28—1971 Mounting Dimensions of Lubricating and Coolant Pumps for Machine Tools. $2.50
B5.32—1953 Designation and Working Ranges of Grinding Machines. $2.00
B5.33—1970 External Cylindrical Grinding Machines—Plain (Revision of B5.33—1953). $2.50
B5.35—1969 Machine Mounting Specifications for Abrasive Discs and Plate Mounted Wheels. $3.00
B5.37—1970 External Cylindrical Grinding Machines—Centerless. $2.00
B5.38—1958 Driving and Spindle Ends for Portable Air and Electric Tools. $2.00
B5.40—1968 Spindle Noses and Tool Shanks for Horizontal Boring Machines. $3.00
B5.41—1968 Quill Flanges and Spindle Ends for Upright and Horizontal Drill Spindles for Production Type Drilling Machines. $2.00
B5.42—1970 External Cylindrical Grinding Machines—Universal. $2.25

GEARS & POWER-TRANSMISSION APPARATUS

B6.1—1968 Tooth Proportions for Coarse-Pitch Involute Spur Gears. $2.00
B6.5—1954 Letter Symbols for Gear Engineering. $2.00
B6.6—1946 Gear Tolerances and Inspection. $2.00
B6.7—1967 Tooth Proportions for Fine-Pitch Involute Spur and Helical Gears. $2.00
B6.9—1956 (R1962) Design for Fine-Pitch Wormgearing. $2.00
B6.10—1954 Gear Nomenclature. $2.00
B6.11—1956 Inspection of Fine-Pitch Gears. $3.50
B6.12—1964 Nomenclature of Gear-Tooth Wear and Failure. $2.00
B6.13—1965 System for Straight Bevel Gears. $2.00
B15.1—1953 (R1958) Mechanical Power Transmission Apparatus. $3.50

PIPE FLANGES & FITTINGS

B16.1—1967 Cast Iron Pipe Flanges and Flanged Fittings, 12, 125, 250 and 800 Lb. $3.50
B16.3—1971 Malleable-Iron Threaded Fittings, 150 and 300 Lb. $3.00
B16.4—1971 Cast Iron Threaded Fittings, 125 and 250 Lb. $3.00
B16.5—1968 Steel Pipe Flanges and Flanged Fittings (150, 300, 400, 600, 900, 1500 and 2500 Lb) Including Reference to Valves (With Errata and Addenda). $6.00
B16.5a&b—1971 Addenda Only. $1.00
B16.9—1971 Wrought Steel Buttwelding Fittings. $2.50
B16.10—1957 Face-to-Face and End-to-End Dimensions of Ferrous Valves. $2.50
B16.11—1966 Forged Steel Fittings, Socket-Welding and Threaded. $2.50
B16.12—1965 Cast-Iron Threaded Drainage Fittings. $2.50
B16.14—1971 Ferrous Pipe Plugs, Bushings and Locknuts With Pipe Threads. $2.50
B16.15—1971 Cast Bronze Screwed Fittings, 125 and 250 Lb. $2.50
B16.18—1963 Cast Bronze Solder-Joint Pressure Fittings (With 1967 Addenda). $2.50 (Addenda Only. $.50)
B16.20—1963 Ring-Joint Gaskets and Grooves for Steel Pipe Flanges. $2.00
B16.21—1962 Nonmetallic Gaskets for Pipe Flanges. $2.00
B16.22—1963 Wrought Copper and Bronze Solder-Joint Pressure Fittings. $2.00
B16.23—1969 Cast Bronze Solder-Joint Drainage Fittings—DMV. $4.00
B16.24—1971 Bronze Flanges and Flanged Fittings, 150 and 300 Lb. $2.00
B16.25—1964 Buttwelding Ends. $2.00
B16.26—1967 Cast Bronze Fittings for Flared Copper Tubes. $2.00
B16.27—1962 Plastic Insert Fittings for Flexible Polyethylene Pipe. $2.00
B16.28—1964 Wrought Steel Buttwelding Short Radius Elbows and Returns. $2.00
B16.29—1966 Wrought Copper and Wrought Copper Alloy Solder-Joint Drainage Fittings. $2.50
B16.30—1969 Unfired Pressure Vessel Flange Dimensions. $3.00
B16.31—1971 Nonferrous Pipe Flanges, 150, 300, 400, 600, 900, 1500 and 2500 Lb. $3.50

KEYS & FASTENERS

B17.1—1967 Keys and Keyseats. $2.50
B17.2—1967 Woodruff Keys and Keyseats. $2.50
B18.1—1965 Small Solid Rivets. $3.00
B18.2.1—1965 Square and Hexagon Bolts and Screws. $3.50
B18.2.2—1965 Square and Hexagon Nuts. $3.50
B18.3—1969 Socket Cap, Shoulder and Set Screws. $4.50
B18.4—1960 Large Rivets. $2.50
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PIPING

Code for Pressure Piping B31 Interpretations. Booklet containing cases in effect January 1, 1970. $10.00. Subscription to Interpretations: $4.00 per year; $9.00 for three years. Individual Cases, $1.00
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Case Interpretation Supplements and Addenda Subscription Service (through June, 1974). $75.00
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Design Criteria for Boilers and Pressure Vessels. 1969. $3.00
Design for Elevated Temperature Environment. 1971. $7.50
Guide to Code Requirements for a Controlled Manufacturing System and the ASME Survey for Compliance. 1970. $1.50
History of the ASME Boiler Code. 1955. $5.00
List of Companies Holding Certificates of Authorization for Use of Code Symbol Stamps. 1971. $15.00
Pressure Vessel and Piping Design. 1960. $18.00
Pressure Vessel Technology
Design and Analysis—Part I
1969. Hardbound. $37.50
Materials and Fabrication—Part II
1969. Hardbound. $37.50
Discussions—Part III
1970. Hardbound. $20.00
Seismic Analysis of Pressure Vessel and Piping Components. 1971. $15.00
Use of the Computer in Pressure Vessel Analysis. 1969. $8.50

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PTC 1—1970 General Instructions (With 1971 Addendum). $4.00
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PTC 34 Draft (June 1970) Draft ASME Code for In-Service Testing of Valves in Nuclear Power Plants. $2.00
PTC 35 Draft (April 1970) Draft ASME Code for In-Service Testing of Pumps in Nuclear Power Plants. $2.50

INSTRUMENTS AND APPARATUS

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ASME Standards

APS—1 Recommended Guide for the Control of Dust Emissions—Combustion for Indirect Heat Exchangers. 1968. $2.50; Discussion on ASME Standard APS-1. 1967. $2.50
APS—2 Recommended Guide for the Control of Oxides of Sulfur (With Supplement). 1970. $3.00. (Supplement only. $1.00)
No. 101 Operation and Flow Process Charts. 1949. $2.50
No. 102 Form for Use in Self-Appraisal of Industrial Plants. 1947. $2.50
No. 104 One-Piece Metallic Piston Rings. 1954. $2.00
No. 111 Recommended Practices for the Design of Marine Propulsion Turbine Lubricating Systems. 1960. $2.00
No. 112 Diaphragm Actuated Control Valve Terminology. 1961. $2.00
No. 113 Recommended Practices for the Flushing and Cleaning of Marine Propulsion Turbine Lubricating Systems. 1964. $2.00
No. 114 Recommended Practices for the Purification of Marine Propulsion Turbine Lubricating Oil. 1964. $2.00
No. 115 Recommended Practices for the Design, Operation and Maintenance of Marine Auxiliary Machinery Lubricating Systems. 1968. $3.50
No. 115 D Recommended Practices for the Design of Lubricating Systems for Marine Steam Turbine Pumps for Various Ships Services. 1969. $2.50
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No. 121 Recommended Practices for the Purification of Lubricating Oil in Marine Steam Turbine Driven Auxiliary Machinery. 1969. $2.50
Draft ASME Code for Pumps and Valves for Nuclear Power (With 1970 Addenda). 1968. $5.00. (Addenda only. $2.00)
Guide for Gas Transmission and Distribution Piping Systems (December 1970). $17.50
LOS—2C1 ASTM-ASME Recommended Practices for the Flushing and Cleaning of Lubricating Systems of Various Turbine Driven Pumps for Marine Service. 1971. $3.00
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Proceedings of the U.S. National Congress of Applied Mechanics. (6th—1970. $12.50; 5th—1966. $21.00; 4th—1962. $44.00; 2nd—1955. $22.00)
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Space Systems and Thermal Technology for the 70's. (Aviation & Space Papers—Part 1. 1970. $45.00; Heat Transfer Papers—Part II. 1970. $45.00)
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Guy, James M. receives honorary membership in Asociacion Mexicana de Ingenieros Mechanicas y Electricistas (Mechanical and Electrical Engineering Society of Mexico) **Ja 104**; retires after 3 years as chairman of ASME Boiler and Pressure Vessel Committee **S 98**; Dual Presentation Marks J. M. Guy Retirement from ASME Boiler and Pressure Vessel Committee ... **D 77**
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Halcomb, S. P.
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Hall, Carl W. receives Ohio State University Centennial Achievement Award ... **Ja 104**
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Ham, I.
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Hamann, F. H.
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Hamid, Y. H.
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Hamilton, J. F.
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Hampton, Robert K. elected Fellow ASME **Jl 76**
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Hannon, B. M.
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Harper, E. Y.
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Harper, John D. elected Fellow ASME **F 102**; receives Fellow ASME certificate **Je 79**; elected member of National Academy of Engineering ... **Je 77**
Harper, William Z. named assistant manager of field and shop divisions and Ridge Construction Co. by Kodak Park Division, Eastman Kodak Co. ... **Ja 105**
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Hartman, W. F.
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Hedrick, Charles L. appointed manager of operations for the Erie City Energy Div. of Zurn Industries, Inc. ..... My 88
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Hench, J. E.
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